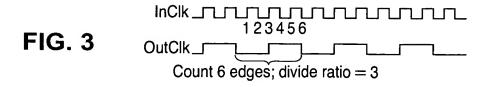


FIG. 2



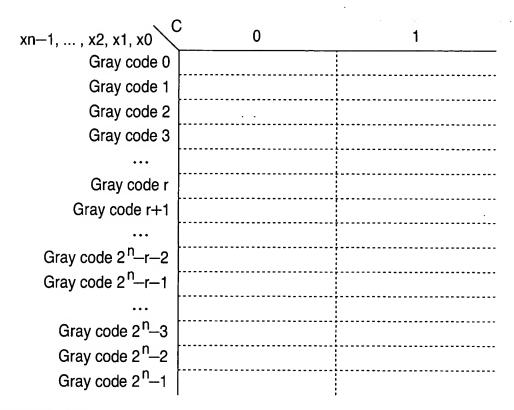


FIG. 4A

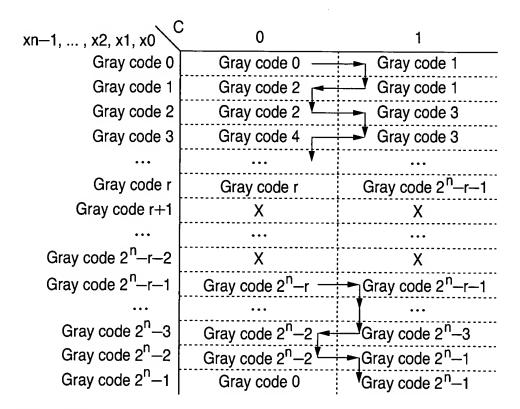


FIG. 4B

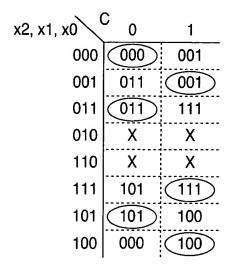
xn-1, , x2, x1, x0	0	1				
Gray code 0	Gray code 0	Gray code 1				
Gray code 1	Gray code 2	Gray code 1				
Gray code 2	Gray code 2	Gray code 3				
Gray code 3	Gray code 4	Gray code 3				
•••	•••	•••				
Gray code r	Gray code r	Gray code 2 ⁿ –r–1				
Gray code r+1	Χ	Χ				
•••	•••	• • •				
Gray code 2 ⁿ -r-2	Χ	Χ				
Gray code 2 ⁿ -r-1	Gray code 2 ⁿ —r	Gray code 2 ⁿ -r-1				
•••	•••	• • •				
Gray code 2 ⁿ –3	Gray code 2 ⁿ –2	Gray code 2 ⁿ -3				
Gray code 2 ⁿ –2	Gray code 2 ⁿ -2	Gray code 2 ⁿ –1				
Gray code 2 ⁿ —1	Gray code 0	Gray code 2 ⁿ -1				

FIG. 4C

vn 1	S, C	04	4.4	40
xn-1, , x2, x1, x0	00	01	11	10
Gray code 0	0	0	X	1
Gray code 1	0	0	1	1
Gray code 2	0	0	1	1
Gray code 3	0	0	1	1
•••	•••	•••	•••	
Gray code r	0	0	1	1
Gray code r+1	Х	0	X	1
•••	•••	•••	•••	•••
Gray code 2 ⁿ -r-2	0	0	1	1
Gray code 2 n_r-1	0	0	1	1
•••	•••	•••	•••	
Gray code 2 ⁿ -3	0	0	1	1
Gray code 2 ⁿ –2	0	0	1	1
Gray code 2 ⁿ -1	1	Х	1	1

FIG. 4D

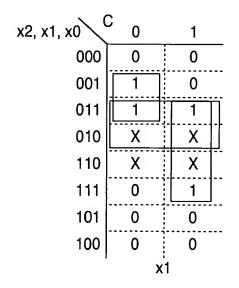
10	Gray code 0	Gray code 0	Gray code 2	Gray code 2	:	Gray code r	Gray code r	:	Gray code r+1	Gray code 2^{n} –r–1	:	Gray code 2 ⁿ -3	Gray code 2 ⁿ -3	Gray code 2 ⁿ -1		
11	×	Gray code 1	Gray code 1	Gray code 3	:	Gray code r-1	×	:	Gray code 2 ⁿ -r-2	Gray code 2 ⁿ -r-2	÷	Gray code 2 ⁿ –4	Gray code $2^{n}-2$	Gray code 2 ⁿ –2		
01	Gray code 1	Gray code 1	Gray code 3	Gray code 3	:	Gray code r+1	Gray code 2 ⁿ -r-2	:	Gray code 2^{n-r-2}	Gray code 2 ⁿ -r	:	Gray code 2 ⁿ -2	Gray code $2^{n}-2$	×	FIG. 4E	
00 00	Gray code 0	Gray code 2	Gray code 2	Gray code 4	:	Gray code r	×	:	Gray code 2 ⁿ -r-1	Gray code 2 ⁿ -r-1	:	Gray code 2^{-3}	Gray code 2 ⁿ -1	Gray code 2 ⁿ -1		
xn-1,, x2, x1, x0 S, C	Gray code 0	Gray code 1	Gray code 2	Gray code 3	:	Gray code r	Gray code r+1	:	Gray code 2 ⁿ -r-2	Gray code 2 ⁿ -r-1	:	Gray code 2 ⁿ -3	Gray code 2 ⁿ -2	Gray code 2 ⁿ -1		



x2, x1, x0 Χ X X

FIG. 5A

FIG. 5B



x2, x1, x0 Χ X Χ X x0

FIG. 5C

FIG. 5D

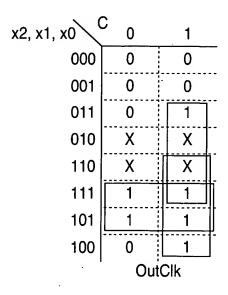


FIG. 5E

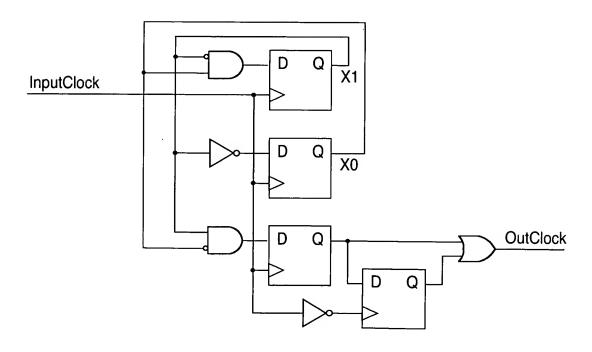


FIG. 6